MPX4080D SERIES

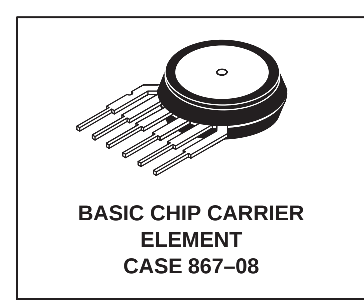
Integrated Silicon Pressure Sensor On-Chip Signal Conditioned, Temperature Compensated and Calibrated

OPERATING OVERVIEW INTEGRATED PRESSURE SENSOR
0 to 80 kPa (0 to 11.6 psi)
0.58 to 4.9 Volts Output

The MPX4080D series piezoresistive transducer is a state–of–the–art monolithic silicon pressure sensor designed for a wide range of applications, but particularly those employing a microcontroller or microprocessor with A/D inputs. This patented, single element transducer combines advanced micromachining techniques, thin–film metallization, and bipolar processing to provide an accurate, high level analog output signal that is proportional to the applied pressure.

Features

- 3.0% Maximum Error over 0° to 85°C
- Ideally suited for Microprocessor or Microcontroller–Based Systems
- Patented Silicon Shear Stress Strain Gauge
- Durable Epoxy Unibody Element
- Easy–to–Use Chip Carrier Option



BASIC CHIP CARRIER ELEMENT
CASE 867–08

NOTE: Pin 1 is the notched pin.

PIN NUMBER			
1	V_{out}	4	N/C
2	Gnd	5	N/C
3	V_S	6	N/C

NOTE: Pins 4, 5, and 6 are internal device connections. Do not connect to external circuitry or ground.

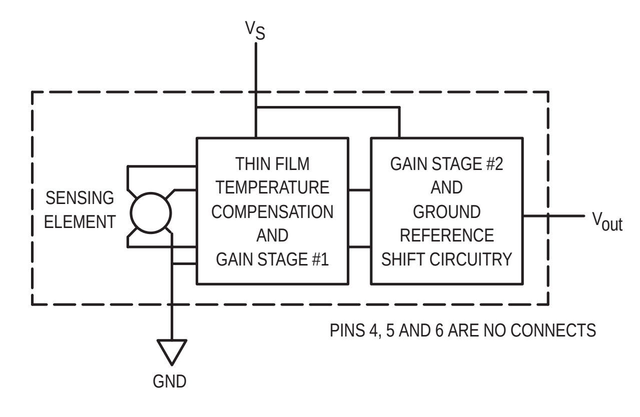


Figure 1. Fully Integrated Pressure Sensor Schematic

MAXIMUM RATINGS(1)

Parametrics	Symbol	Value	Unit
Overpressure(2) (P1 > P2) (P2 > P1)	P_{max}	400 400	kPa
Storage Temperature	T_{stg}	–40° to +125°	°C
Operating Temperature	T_A	– 40° to +105°	°C

1. T_C = 25°C unless otherwise noted.
2. Exposure beyond the specified limits may cause permanent damage or degradation to the device.

REV 0

OPERATING CHARACTERISTICS (V_S = 5.1 Vdc, T_A = 25°C unless otherwise noted, P1 > P2)

Characteristic	Symbol	Min	Typ	Max	Unit
Pressure Range[1]	P_{OP}	0	—	80	kPa
Supply Voltage[2]	V_S	4.85	5.1	5.35	Vdc
Supply Current	I_o	—	7.0	10	mAdc
Minimum Pressure Offset[3] (0 to 85°C) @ V_S = 5.1 Volts	V_{off}	0.478	0.575	0.672	Vdc
Full Scale Output[4] (0 to 85°C) @ V_S = 5.1 Volts	V_{FSO}	4.772	4.900	5.020	Vdc
Full Scale Span[5] (0 to 85°C) @ V_S = 5.1 Volts	V_{FSS}	—	4.325	—	Vdc
Accuracy[6]	—	—	—	±3.0	$\%V_{FSS}$
Sensitivity	V/P	—	54	—	mV/kPa

NOTES:
1. 1.0kPa (kiloPascal) equals 0.145 psi.
2. Device is ratiometric within this specified excitation range.
3. Offset (V_{off}) is defined as the output voltage at the minimum rated pressure.
4. Full Scale Output (V_{FSO}) is defined as the output voltage at the maximum or full rated pressure.
5. Full Scale Span (V_{FSS}) is defined as the algebraic difference between the output voltage at full rated pressure and the output voltage at the minimum rated pressure.
6. Accuracy (error budget) consists of the following:
   - Linearity: Output deviation from a straight line relationship with pressure over the specified pressure range.
   - Temperature Hysteresis: Output deviation at any temperature within the operating temperature range, after the temperature is cycled to and from the minimum or maximum operating temperature points, with zero differential pressure applied.
   - Pressure Hysteresis: Output deviation at any pressure within the specified range, when this pressure is cycled to and from minimum or maximum rated pressure at 25°C.
   - TcSpan: Output deviation over the temperature range of 0° to 85°C, relative to 25°C.
   - TcOffset: Output deviation with minimum pressure applied, over the temperature range of 0° to 85°C, relative to 25°C.
   - Variation from Nominal: The variation from nominal values, for Offset or Full Scale Span, as a percent of V_{FSS} at 25°C.

ON–CHIP TEMPERATURE COMPENSATION, CALIBRATION and SIGNAL CONDITIONING

Figure 2 shows the sensor output signal relative to pressure input. Typical, minimum, and maximum output curves are shown for operation over a temperature range of 0° to 85°C using the decoupling circuit below. (The output will saturate outside of the specified pressure range.)

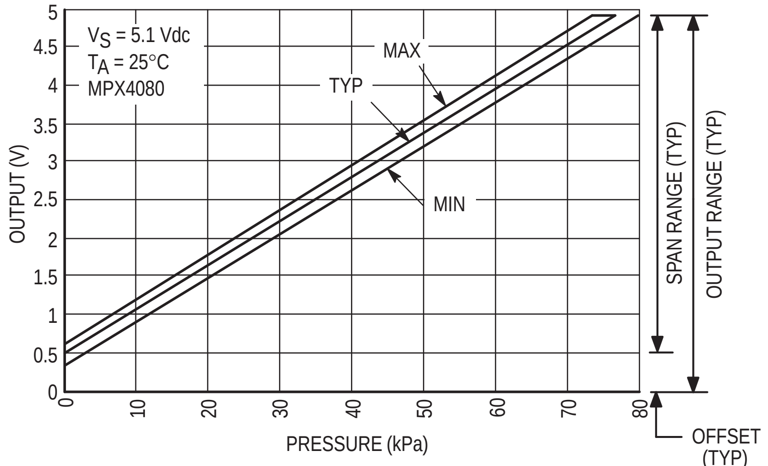


Figure 2. Output versus Pressure Differential

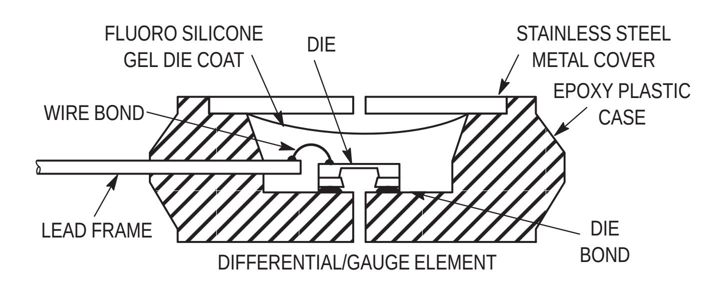


Figure 3. Cross–Sectional Diagrams (Not to Scale)

Figure 3 illustrates the Differential Sensing Chip in the basic chip carrier (Case 867). A fluorosilicone gel isolates the die surface and wire bonds from the environment, while allowing the pressure signal to be transmitted to the sensor diaphragm.

The MPX4080D series pressure sensor operating characteristics, and internal reliability and qualification tests are based on use of dry air as the pressure media. Media, other than dry air, may have adverse effects on sensor performance and long–term reliability. Contact the factory for information regarding media compatibility in your application.

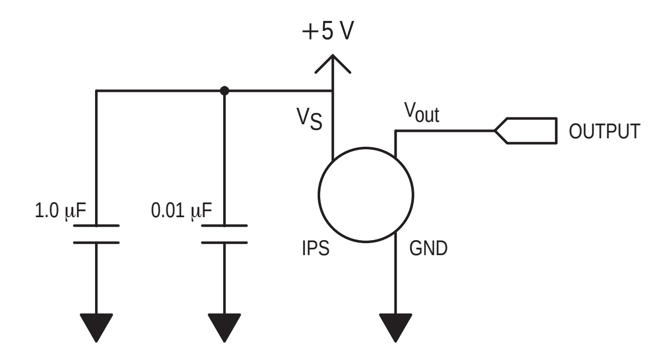
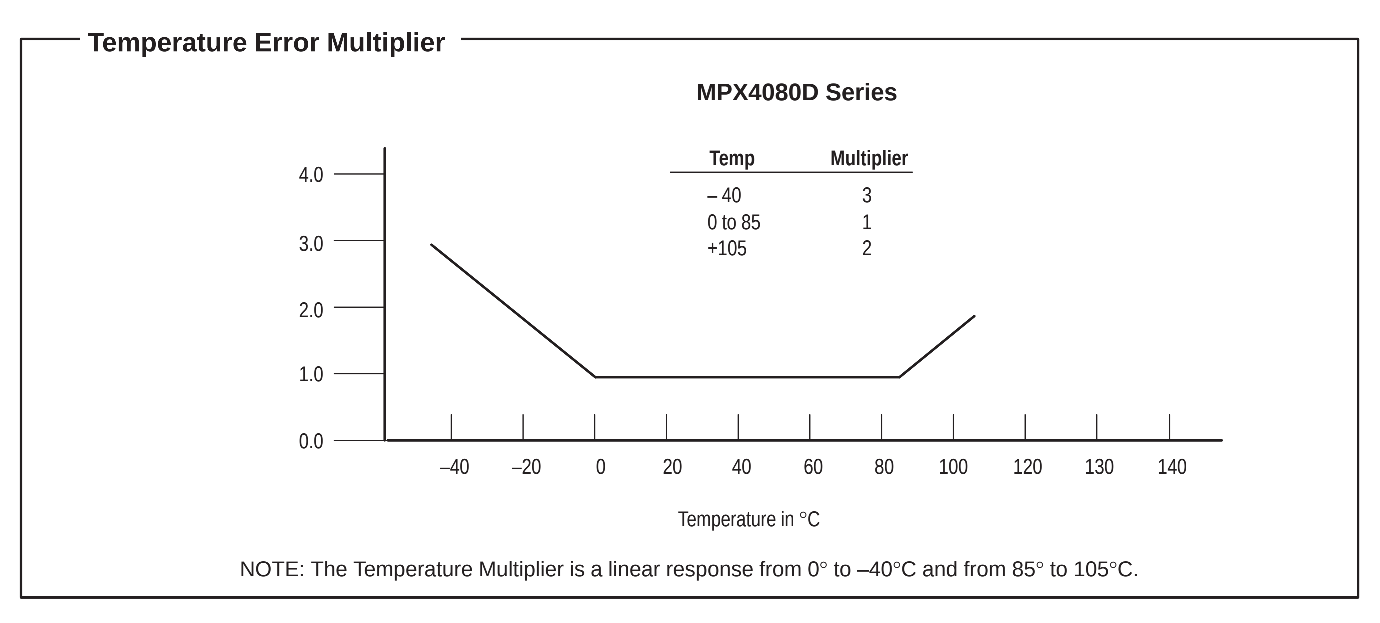


Figure 4. Recommended Power Supply Decoupling. For output filtering recommendations, please refer to Application Note AN1646.

Transfer Function (MPX4080D)

Nominal Transfer Value: $V_{out} = V_S$ (P x 0.01059 + 0.11280)
+/– (Pressure Error x Temp. Mult. x 0.01059 x V_S)
V_S = 5.1 V ±0.25V P kPa

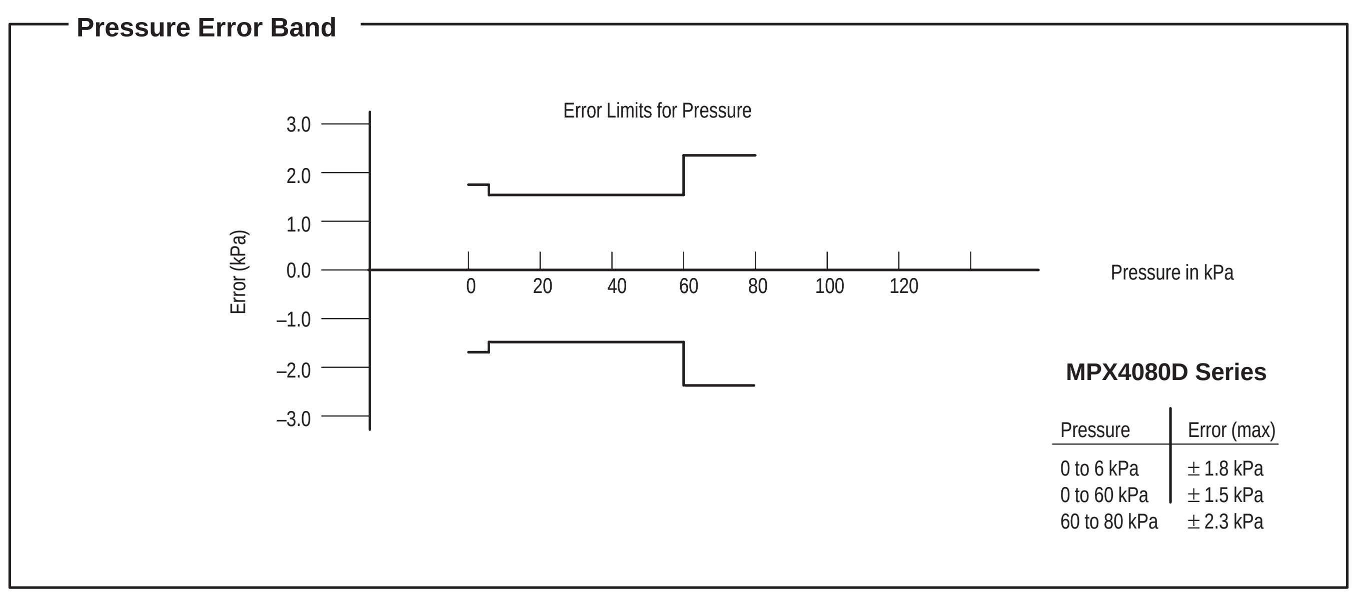
Temperature Error Multiplier



Temp	Multiplier
– 40	3
0 to 85	1
+105	2

NOTE: The Temperature Multiplier is a linear response from 0° to –40°C and from 85° to 105°C.

Pressure Error Band



MPX4080D Series

Pressure	Error (max)
0 to 6 kPa	± 1.8 kPa
0 to 60 kPa	± 1.5 kPa
60 to 80 kPa	± 2.3 kPa

PRESSURE (P1)/VACUUM (P2) SIDE IDENTIFICATION TABLE

Motorola designates the two sides of the pressure sensor as the Pressure (P1) side and the Vacuum (P2) side. The Pressure (P1) side is the side containing fluoro silicone gel which protects the die from harsh media. The Motorola MPX pressure sensor is designed to operate with positive differential pressure applied, P1 > P2.

The Pressure (P1) side may be identified by using the Table below:

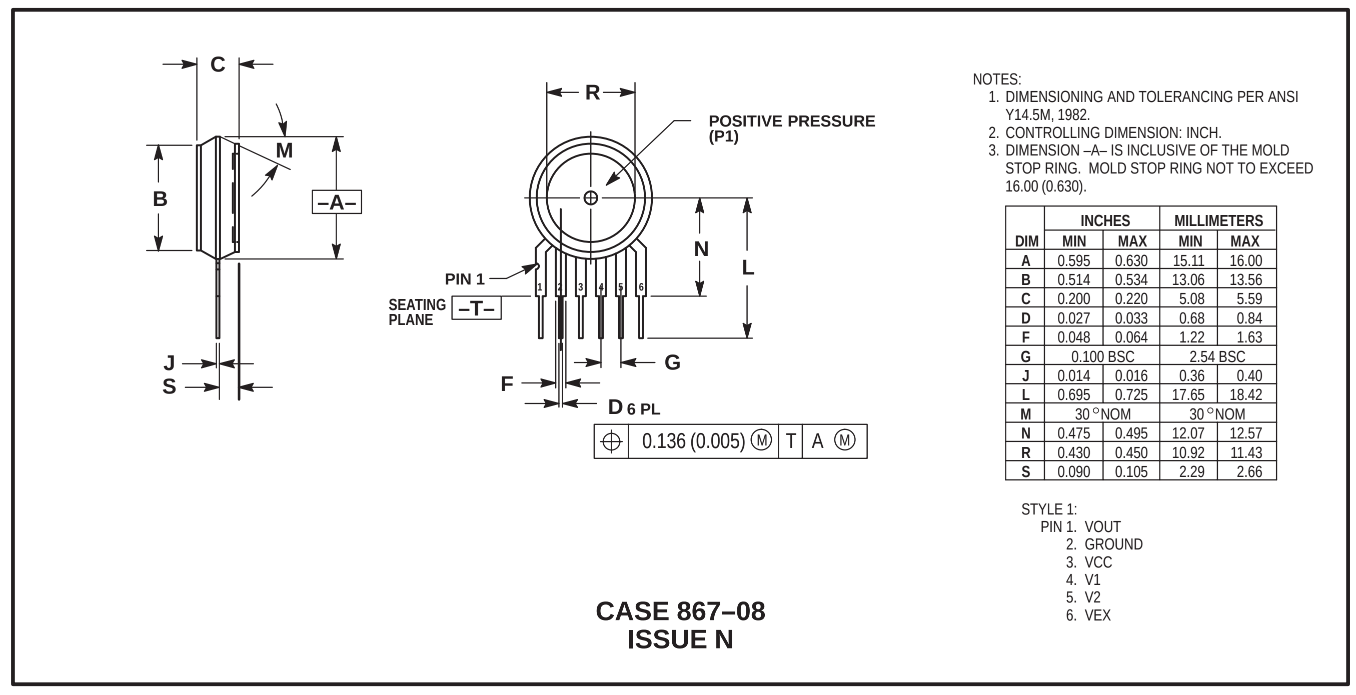
Part Number	Case Type	Pressure (P1) Side Identifier
MPX4080D	867–08	Stainless Steel Cap

ORDERING INFORMATION:

The MPX4080D is available only in the basic element package.

Device Name	Options	Case Type	MPX Series	
			Order Number	Device Marking
Basic Element	Differential	867–08	MPX4080D	MPX4080D

PACKAGE DIMENSIONS



NOTES:
1. DIMENSIONING AND TOLERANCING PER ANSI Y14.5M, 1982.
2. CONTROLLING DIMENSION: INCH.
3. DIMENSION –A– IS INCLUSIVE OF THE MOLD STOP RING. MOLD STOP RING NOT TO EXCEED 16.00 (0.630).

	INCHES		MILLIMETERS	
DIM	MIN	MAX	MIN	MAX
A	0.595	0.630	15.11	16.00
B	0.514	0.534	13.06	13.56
C	0.200	0.220	5.08	5.59
D	0.027	0.033	0.68	0.84
F	0.048	0.064	1.22	1.63
G	0.100 BSC		2.54 BSC	
J	0.014	0.016	0.36	0.40
L	0.695	0.725	17.65	18.42
M	30°NOM		30°NOM	
N	0.475	0.495	12.07	12.57
R	0.430	0.450	10.92	11.43
S	0.090	0.105	2.29	2.66

STYLE 1:
PIN 1. VOUT
2. GROUND
3. VCC
4. V1
5. V2
6. VEX

CASE 867–08
ISSUE N

BASIC ELEMENT

NOTES

美国 MOTOROLA 压力传感器

美国 MOTOROLA 公司的 MPX 系列硅压力传感器，主要以气压测量为主，适合用于医疗器械，气体压力控制等领域，输出数字信号。其测量方式可分为：表压（GP）、绝压（A、AP）、差压（D、DP）型。在宽温度范围工作时需外加补偿网络和信号调整电路。具体型号分类而定



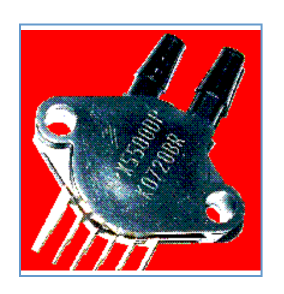
名称：MPX2010DP



名称：MPX5700DP MPX5700GP



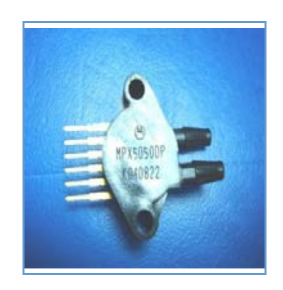
名称：MPX2100AP



名称：MPX5500DP



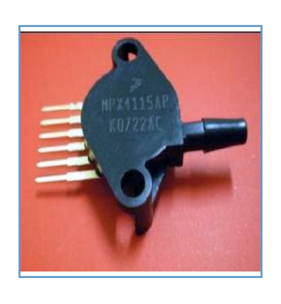
名称：MPX5100AP



名称：MPX5050DP



名称：MPX5010DP



名称：MPX4115AP



名称：MPX2200A



名称：MPX2200AP



名称：MPXH6115A6U



名称：MPX4250DP



名称：MPX4115A



名称：MPX2202DP



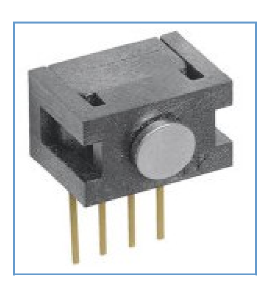
名称：MPX2102AP



名称：MPX2053GP



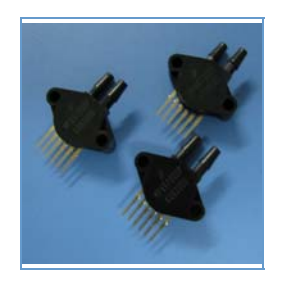
名称：MPXY8300A6U 压力传感器



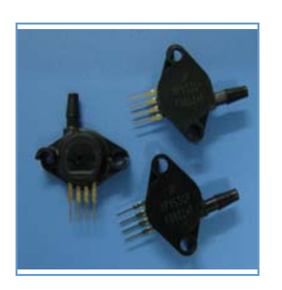
名称：触力型压力传感器 FSG15N1A



名称：硅压力传感器 MPXH6115A



名称：MPX5700DP 硅压力传感器



名称：MPX53GP 硅压力传感器



名称：压力传感器 FPM07



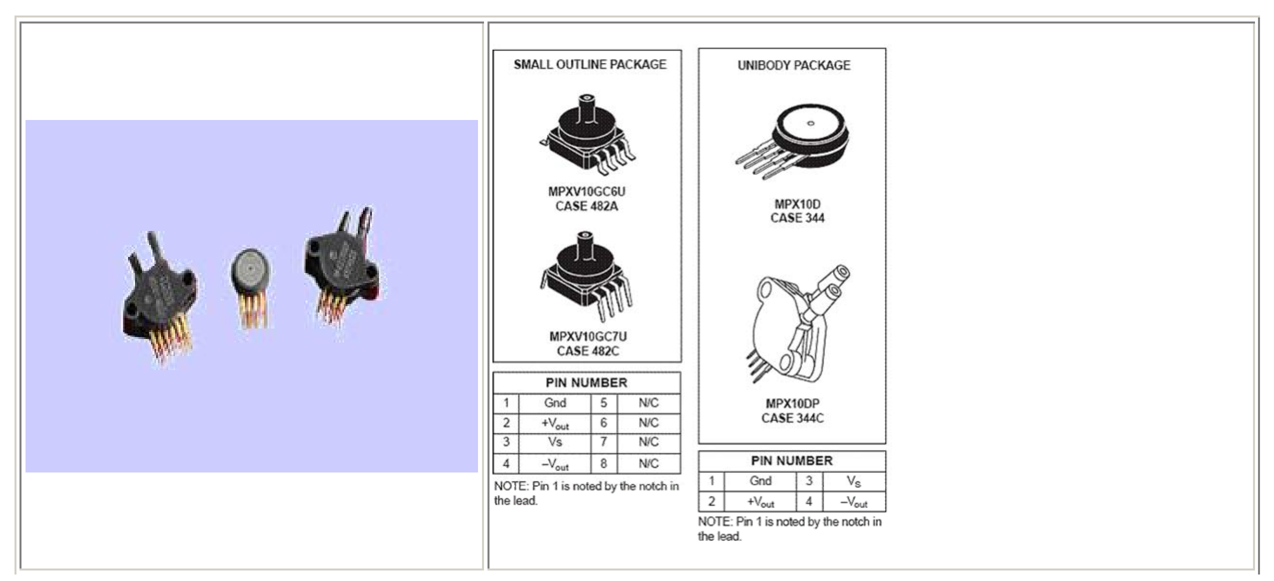
名称：轮胎压力传感器 TP015



名称：轮胎压力传感器 NPP301



名称：Freescale 压力传感器 MPX2010DP



商斯达实业传感器与智能控制分公司专门从事各种进口传感器的营销工作，代理多家欧美知名公司的产品。涉及压力、温度、湿度、电流、液位、磁阻、霍尔、流量、称重、光纤、倾角、扭矩、气体、光电、位移、触力、红外、速度、加速度等多种产品。广泛应用于航空航天、医疗器械（如血压计）、工业控制、冶金化工、汽车制造、教育科研等领域。

商斯达实业代理的品牌产品主要有：

压　　力：Kulite、ACSI、Honeywell、Entran、Gems、Dwyer、SSI、Smi、Senstronics、Intersema、Motorola、 NAIS、E+H、Fujikura、Dytran、APM

称重测力：Transcell、HBM、Interface、Thamesside、Philips、Entran

温 湿 度：Honeywell、Dwyer

流　　量：Gems、Dwyer、Honeywell、Folwline、WorldMagnetics

液　　位：Honeywell、Siccom、Gems、Dwyer、Kulite、SSI

加 速 度：Entran、Silicondesigns、Dytran

压力开关：ACSI、Gems、Dwyer、台湾矽微

航空器材：TexTech 隔音材料、Honeywell 薄膜加热片、DigirayX 射线探伤仪

仪　　表：Honeywell、Transcell、东辉、上润、AD、东崎

商斯达实业 除代理上述产品外，还有几条传感器生产线，一条压力传感器组装线，可为用户提供各种用途的、特殊要求的配套产品。同时还和国内众多同行建立了友好交流的合作关系。商斯达实业地处深圳，信息资源集中，技术力量雄厚，与国内外有着广泛的联系，本着互利互惠、让利与长期合作者的原则，以成为企业〞理想的战略伙伴〞为己任，深受业界好评。商斯达实业期待着与您开展更友好、更广泛、更深入的合作！

飞思卡尔 > 传感器

MMA7260Q 是一款三轴 (XYZ-Axis) 向低重力加速度传感器，提供 1.5g、2g、4g 和 6g 的可选灵敏度。MMA7260Q 能够用于各种多功能应用，具备感应坠落、倾斜、移动、定位、撞击和震动的功能。它的封装尺寸很小，只需较小的板卡空间，另外还提供快速启动和休眠模式，这些特性使 MMA7260Q 成为采用电池供电的电子产品的理想之选，包括 PDA、手机、3D 游戏和数码相机等。 更多

重点汽车应用

轮胎压力监控系统 （中文）

轮胎压力监控系统(TPMS) 在线座谈 （中文）

重点产品

加速度（Low-g）传感器

MMA7260Q 低重力加速度（low-g）传感器 （中文）

MMA6200xxQ 低重力加速度（low-g）传感器 （中文）

集成压力传感器

MPXAZ 或 MPXHZ 封装的集成压力传感器特别适用于**汽车应用**

MPXA6115A 高温精确集成压力传感器 （中文）

MPXAZ6115A 媒体耐抗的高温精确集成压力传感器 （中文）

MPXH6115A 高温精确集成压力传感器 （中文）

MP3H6115A 高温精确集成压力传感器 （中文）

MPXHZ6115A 媒体耐抗的高温精确集成压力传感器 （中文）

MPXH6250A 集成压力传感器 （中文）

MPXH6300A 压力传感器 （中文）

MPXH6400A 集成压力传感器 （中文）

美国 motorola/freescale 气压传感器

MPX10D MPX10DP MPX10GP MPX10GS MPXV10GC6U MPXV10GC7U MPX12D MPX12DP MPX12GP MPX2010D MPX2010DP MPX2010GP MPXT2010G7U MPX2050D MPX2050DP MPX2050GP MPX2050GVP MPX2050GS MPX2050GSX MPX2050GVSX MPX2053D MPX2053DP MPX2053GP MPX2100A MPX2100DP MPX2100AP MPX2100AS MPX2100ASX MPX2102A MPX2102D MPX2102DP MPX2102AP MPX2102GP MPX2102GVP MPX2200A MPX2200D MPX2200DP MPX2200AP MPX2200GP MPX2200A MPX2200D MPX2200DP MP2200AP MPX2200GP MPX21002A MPX2102D MPX2102DP MPX2102AP MPX2102GP MPX2102GVP MPX2200A MPX2200D MPX2200DP MPX2200AP MPX2200GP MPX2201GP MPX2300DT1 MPX4080D MPX4100A MPXA4100A6U MPX4100AP MPXA4100A6U MPX4100AS MPX4101A MPXA4101AC6U MPX4105A MPX4115A MPXA4115A6U MPX4115AP MPXA4115AC6U MPX4115AS MPX4200A MPX4200AP MPX4200SA MPX4200ASX MPX4250A MPX4250AP MPX4250A6U MPXA4250A6T1 MPXA4250AC6U MPXA4250AC6T1 MPX4250D MPX4250GP MPX4250DP MPX5010D MPX5010DP MPX5010GP MPX5010GS MPX5010GSX MPXV5010G6U MPXV5010G7U MPXV5010GC6U/T1 MPXV5010GC7U MPX5050D MPX5050DP MPX5050GP MPX5100A MPX5100D MPX5100DP MPX5100AP MPX5100GP MPX5100GVP MPX5100AS MPX5100GS MPX5100GVS MPX5100ASX MPX5100GSX MPX5100GVSX MPX53D MPX53GP MPX5500D MPX5500DP MPX5700D MPX5700A MPX5700DP MPX5700GP MPX5700AP MPX5700GS MPX5700AS MPX5999D MPXA6115A6U MPXA6115AC6U MPXA6115A MPXA6115A6T1 MPXA6115AC6T1 MPXAZ4100A6U MPXAZ4100A MPXAZ4100A6T1 MPXAZ4100AC6U MPXAZ4100AC6T1 MPXAZ4115A6U MPXZ4115A MPXAZ4115A6T1 MPXAX4115AC6U MPXAZ4115AC6T1 MPXC2011DT1 MPXM2010D MPXM2010DT1 MPXM2010GS MPXM2010GST1 MPXM2053D MPXM2053DT1 MPXM2053GS MPXM2053GST1 MPXV4006GC6U MPXV4006G6U MPXV4115V6U MPXV4115V6T1 MPXV4115VC6U MPXV5004GC6U/T1 MPXV5004G6U/T1 MPXV5004GC7U MPXV5004G7U MPXY8010 MPXY8020 MPXY8030 MPXY8040 MMA6200xxQ 低重力加速度（low-g）传感器

MPXA6115A 高温精确集成压力传感器 MPXAZ6115A 耐抗高温压力传感器 MPXH6115A 高温精确集成压力传感器

MP3H6115A 高温精确集成压力传感器 MPXHZ6115A 媒体耐抗的高温精确集成压力传感器 MPXH6250A 集成压力传感器 MPXH6300A 压力传感器 MPXH6400A 集成压力传感器 等汽车用压力传感器

详情请致电我公司或上我公司网站查询

美国 motorola 压力传感器

MPX2010 MPX2100 MPX4080D MPX5050 MPX4105A MPX4200

MPX4250D MPX2050 MPX5999D MPX5100 MPX5010 MPX10

MPX4115A MPX4250A

MPX（毫伏输出）选型指南：（D：差压、A：绝压、P：含包装、MPX7000 系列适合电池供电）

型号	压力范围 KPa	满量程输出，mV			灵敏度 mV/psi	过压 psi,Max	价格<元>	详细资料
		Min.	Typ.	Max.				
MPX10D/DP	10	20	35	50	3.5	75		查看
MPX50D/DP	50	45	60	90	1.2	200		查看
MPX100D/DP/A/AP	100	45	60	90	0.6	200		查看
MPX200D/DP/A/AP	200	45	60	90	0.3	400		查看
MPX700D/DP	700	45	60	90	0.086	2800		查看
MPX2010D/DP	10	24	25	26	2.5	700		查看
MPX2050D/DP	50	38.5	40	41.5	0.8	200		查看
MPX2100D/DP/A/AP	100	38.5	40	41.5	0.4	400		查看
MPX2200D/DP/A/AP	200	38.5	40	41.5	0.2	400		查看
MPX2700D	700	38.5	40	41.5	0.057	2800		查看
MPX7050D/DP	50	38.5	40	41.5	0.8	200		查看
MPX7100D/DP/A/AP	100	38.5	40	41.5	0.4	400		查看
MPX7200D/DP/A/AP	200	38.5	40	41.5	0.2	400		查看
MPX（标准输出）选型指南								
MPX4100A/AP	15-102	4618	4700	4782	54	400		查看
MPX4250A	20-250	4622	4690	4762	20	400		查看
MPX5010D/DP	10	4275	4500	4725	450	75		查看
MPX5050D/DP	50	4388	4500	4613	90	200		查看
MPX5100D/DP	100	4388	4500	4613	45	400		查看
MPX5100A/AP	15-115	4388	4500	4613	45	400		查看
MPX5500D/DP	500	4388	4500	4613	9.0	3500		查看
MPX5700D/DP	700	4388	4500	4613	6.0	2800		查看
MPX5999D/DP	1000	4388	4500	4613	5.0	2800		查看

Freescale 加速度传感器（low g）

型 号	Acceleration(g)	sensing axis	sensitivity(mg/v)	Rolloff frequency(hz)	vdd(v)	zero g output	package
MMA6260Q	1.5/1.5	X-Y	800/800	50	3.3	1.65	16pin QFN
MMA6261Q	1.5/1.5	X-Y	800/800	300	3.3	1.65	16pin QFN
MMA6262Q	1.5/1.5	X-Y	800/800	150	3.3	1.65	16pin QFN
MMA6263Q	1.5/1.5	X-Y	800/800	900	3.3	1.65	16pin QFN
MMA2260D	1.5	X	1200	50	5.0	2.5	16pin SOIC
MMA1260D	1.5	Z	1200	50	5.0	2.5	16pin SOIC
MMA1270D	2.5	Z	750	50	5.0	2.5	16pin SOIC
MMA1250D	5.0	Z	400	50	5.0	2.5	16pin SOIC
MMA1220D	8.0	Z	250	250	5.0	2.5	16pin SOIC
MMA6231Q	10/10	X-Y	120/120	300	3.3	1.65	16pin QFN
MMA6233Q	10/10	X-Y	120/120	900	3.3	1.65	16pin QFN

Freescale 加速度传感器（Medium g）

型 号	Acceleration(g)	sensing axis	sensitivity(mg/v)	Rolloff frequency(hz)	vdd(v)	zero g output	package
MMA3201D	40/40	X-Y	50/50	400	5.0	2.5	20pin SOIC
MMA2201D	40	X	50	400	5.0	2.5	16pin SOIC
MMA2202D	50	X	40	400	5.0	2.5	16pin SOIC
MMA3222D	50/30	X-Y	40/66.67	400	5.0	2.5	20pin SOIC
MMA3204D	100/30	X-Y	20/66.67	400	5.0	2.5	20pin SOIC
MMA3202D	100/50	X-Y	50/100	400	5.0	2.5	20pin SOIC
MMA2204D	100	X	20	400	5.0	2.5	16pin SOIC
MMA1213D	50	Z	40	400	5.0	2.5	16pin SOIC
MMA1210D	100	Z	20	400	5.0	2.5	16pin SOIC

Freescale 加速度传感器（High g）

型 号	Acceleration(g)	sensing axis	sensitivity(mg/v)	Rolloff frequency(hz)	vdd(v)	zero g output	package
MMA1211D	150	Z	13	400	5.0	2.5	16pin SOIC
MMA2301D	200	X	10	400	5.0	2.5	16pin SOIC
MMA1212D	200	Z	10	400	5.0	2.5	16pin SOIC
MMA2300D	250	X	8.0	400	5.0	2.5	16pin SOIC
MMA1200D	250	Z	8.0	400	5.0	2.5	16pin SOIC

Freescale 集成压力传感器

型 号	最大 压力 psi	最大 压力 kpa	最大 压力 in H20	最大 压力 cm H20	最大 压力 mm Hg	过压 (kpa)	量程 电压 vdc	灵敏 mV/Kpa	精度 0~85 (% of VFSS)	典型压力			
										A	D	G	V
MPX4080	11.6	80	321	815	600	400	4.3	54	±3.0		•		
MPX4100	15.2	105	422	1070	788	400	4.6	54	±1.8	•			
MPX4101	14.8	102	410	1040	765	400	4.6	54	±1.8	•			
MPXA6115A	16.7	115	462	1150	863	400	4.5	45.9	±1.5	•			
MPX4105	15.2	105	422	1070	788	400	4.6	51	±1.8	•			
MPX4115	16.7 16.7	115 115	462 462	1174 1174	863 863	400 400	4.6 4.0	46 38	±1.5 ±1.5	•			•
MPXH6115A	16.7	115	462	1150	863	400	4.6	45.9	±1.5	•			
MPX4200	29	200	803	2040	1500	400	4.5	26	±1.5	•			
MPX4250	36 36	250 250	1000 1000	2550 2550	1880 1880	400 400	4.7 4.7	20 19	±1.5 ±1.4	•	•	•	
MPXH6250	36	250	1000	2550	1880	400	4.7	19	±1.5	•			
MPXV4006	0.87	6.0	24	61	45	10	4.6	766	±5.0		•		•
MPXV5004	0.57	4.0	16	40	29	10	3.9	1000	±2.5		•		•
MPX5010	1.45	10	40	102	75	75	4.5	450	±5.0		•		•
MPX5050	7.25	50	201	510	375	200	4.5	90	±2.5		•	•	•
MPX5100	14.5 16.7	100 115	401 462	1020 1174	750 863	400 400	4.5 4.5	45 45	±2.5 ±2.5	•	•	•	
MPX5500	72.5	500	2000	5100	3750	2000	4.5	9.0	±2.5		•	•	
MPX5700	102	700	2810	7140	5250	2800	4.5	6.0	±2.5	•	•	•	
MPX5999	150	1000	4150	10546	7757	4000	4.5	5.0	±2.5		•		
MPXh6300	44	300	1200	3060	2250	400	4.7	16	±1.8	•			
MPXH6400	60	400	1600	4000	3000	500	4.7	12	±1.5	•			

Freescale 带补偿压力传感器

型 号	最大压力 psi	最大压力 kpa	最大压力 in H20	最大压力 cm H20	最大压力 mm Hg	过压 (kpa)	零位 偏差 mv	量程电压 mv	灵敏 mV/Kpa	线性%量程 最小	线性%量程 最大	典型压力			
												A	D	G	V
MPX2010	1.45	10	40	102	75	75	±1.0	25	2.5	-1.0	1.0		•	•	
MPX2053	7.0	50	201	510	375	200	±1.0	40	0.8	-0.6	0.4		•		•
MPX2102	14.5 14.5	100 100	400 400	1020	750 750	200 200	±2.0 ± 1.0	40 40	0.4 0.4	-1.0 -0.6	1.0 0.4	•	•		•

MPX2202	29 29	200 200	800 800	2040	1500 1500	400 400	±1.0 ± 1.0	40 40	0.2 0.2	-1.0 -0.6	1.0 0.4	•	•		•
MPX2050	7.0	50	201	510	375	200	±1.0	40	0.8	-0.3	-0.3		•	•	
MPX2100	14.5 14.5	100 100	400 400	1020	750 750	200 200	±2.0 ± 1.0	40 40	0.4 0.4	-1.0 -0.3	-1.0 -0.3	•	•		•
MPX2200	29 29	200 200	800 800	2040	1500 1500	400 400	±1.0 ± 1.0	40 40	0.2 0.2	-1.0 -0.3	-1.0 -0.3	•	•		•

Freescale 无补偿压力传感器

型号	最大压力 psi	最大压力 kpa	最大压力 in h2o	最大压力 cm h2o	最大压力 mm Hg	过压 (kpa)	零位偏差 mv	量程电压 mv	灵敏 mV/Kpa	线性 % 量程 最小	线性 % 量程 最大	典型压力			
												A	D	G	V
MPX10	1.45	10	40	102	75	75	20	35	3.5	-1.0	1.0		•	•	
MPX12	1.45	10	40	102	75	75	20	55	3.5	-1.0	1.0		•	•	
MPX53	7.0	50	200	510	375	200	20	60	1.2	-0.6	0.4		•	•	

Freescale 胎压监测传感器

型 号	最大 压力 psi	最大 压力 kpa	最大 压力 BAR	量程 输出	灵敏 kpa/count	最大压力精度 -20° C	最大压力精度 +25 ° C-+70° C	最大温度精度 +25° C	工作电压 v	典型压力			
										A	D	G	V
MPXY8020A	92.4	637.5	6.4	8-BIT	2.5	±15kpa	±7.5kpa	±4° C	2.1-3.6	•			
MPXY8021A	92.4	637.5	6.4	8-BIT	2.5	±20kpa	±7.5kpa	±4° C	2.1-3.6	•			
MPXY8040A	130.5	900	9.0	8-BIT	5.0	±25kpa	±20kpa	±4° C	2.1-3.6	•			

单位换算

单 位	千 帕	mm Hg	millibars	inchesH2O	PSI
1 大气压	101.325	760.00	1013.25	406.795	14.696

1 千帕	1.00000	7.50062	10.0000	4.01475	0.145038
1 mm Hg	0.133322	1.00000	1.33322	0.535257	0.0193368
1 millibar	0.100000	0.750062	1.00000	0.401475	0.0145038
1 inch H2o	0.249081	1.86826	2.49081	1.00000	0.0361
1 PSI	6.89473	51.7148	68.9473	27.6807	1.00000
1 hectoPascal	0.100000	0.75006	1.00000	0.401475	0.0145038
1 cm H20	0.09806	0.7355	9.8x10*7	0.3937	0.014223

压力传感器型号解析(MPXA2XXXAPXT1)

M	PX	A	2	XXX	A	P	X	T1
M - 标准品 S- 定制品 P,X- 测试品	压力传感器	无 -UNIBODY AH- SSOP A/V- SOP AZ -SMALL OUTLINE MEDIA RESISTANT PACKAGE C-CHIP HZ-SUPER SMALL OUTLINE MEDIA RESISTANT M-M PAK Y-SUPER SMALL OUTLINE PACKAGE(TPM)	无-无补偿 2-温度补偿校 正 3-open 4--温度补偿校正信号 自动校准 5- 温度补偿校正信号 6-高温 7-CMOS 8-胎压检测	最大压力 (kpa) mpx2300 (mmHg)	A-绝对压力 G-表压 D-差压 V-真空	C-AXIXL PORT(SMALL OUTLINE PACKAGE) P-PORTED SINGLE PORT (AP,GP,GVP) DUAL PORT(DP) S-STOVEPIPE PORT(UNIBODY) SX-AXIAL PORT (UNIBODY)	NONE-NO LEADFORM 0-OPEN 1-2 (CONSULT FACTORY) 3-5 OPEN 6-7 SOP ONLY (6=GULL WING/SURFACE MOUNT) (7= 87 DEGREES/DIP)	NONE-TRAYS T1-TAPE AND REEL 1 INDICATES PART ORIENTATION IN TAPE U-RAIL

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